

BEST AVAILABLE COPY

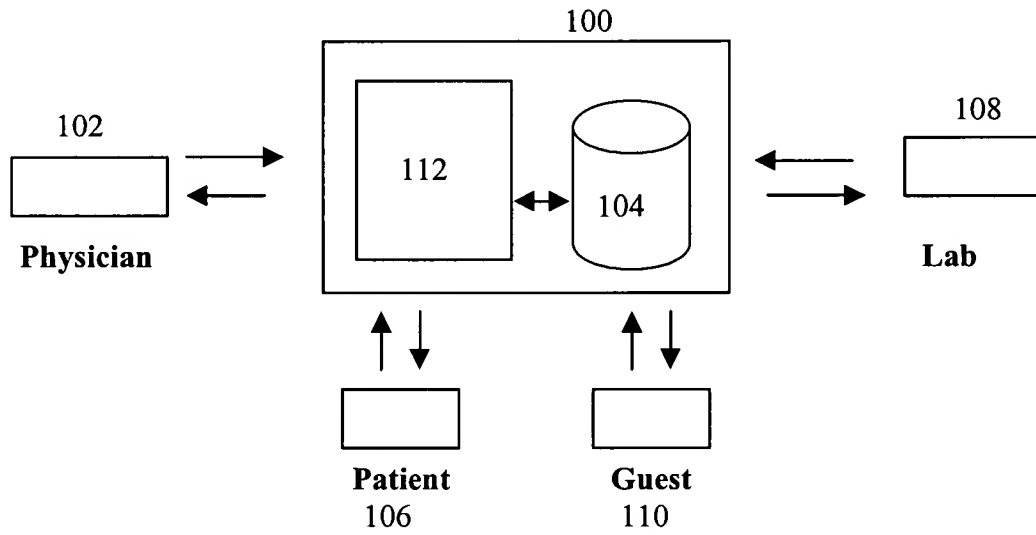




FIG. 1

004220-3464560



personalized cardiovascular  
wellness management

152

username

154

password

visit us at [www.berkeleyheartlab.com](http://www.berkeleyheartlab.com)

Submit

156

Guest

150

Figure 2

MOC SITE  
TRACKER

004240-54676550

161 - Patient Activity

162 - Patient List

163 - E-Mail

164 - My Statistics

165 - End of Day Report

166 - Preferences

167 - Reference

168 - News

169 - Product Review

WELCOME

My Statistics

Patient Activity

Professional News

Current Major Headlines

Current News

Upcoming Events

174

| Patients  | Pattern B | Lp(a) | Complying to Exercise | Complying to |
|-----------|-----------|-------|-----------------------|--------------|
| Myself    | 20%       | 20%   | 20%                   | 20%          |
| Community | 20%       | 20%   | 20%                   | 20%          |

176

| Patients | Email | New Test | FAQ | Compliance |
|----------|-------|----------|-----|------------|
| 5        | 20    | 3        | 6   | 4          |

178

Current major headline introduction

Major Headline Topic 1

Major Headline Topic 2

160

News Headline

News Headline

News Headline

News Headline

News Headline

2/12/2000 to 2/12/2000

Event Title

Event Location

2/13/2000 to 2/17/2000

Event Title

Event Location

2/13/2000 to 2/17/2000

Event Title

Event Location

Figure 3

BEST AVAILABLE COPY

**WELCOME**

- Patient Activity
- Patient List
- E-Mail
- My Statistics
- End of Day Report
- Preferences
- Reference
- News
- Product Review

**Patient Activity**

| Patients    | Email | New Test | FAQ | Compliance |
|-------------|-------|----------|-----|------------|
| Joe Patient | 2     | 3        | ✓   |            |

201

200



Figure 4

**BEST AVAILABLE COPY**



personalized cardiovascular wellness management

Physicians Front Desk About 4myheart.com Contact Us

**WELCOME**

- Patient Activity
- Patient List
- E-Mail
- My Statistics
- End of Day Report
- Preferences
- Reference
- News
- Product Review

**Patient List**

| Patient     | Gender | Age | Birth Date | ID Num |
|-------------|--------|-----|------------|--------|
| Joe Patient | Male   | 57  | 4-16-42    | T250   |

211

210



Figure 5

004220-9404E550



- Home
- Patient Activity
- Patient List
- E-Mail
- My Statistics
- End of Day Report
- Preferences
- Reference
- News
- Product Review

E-Mail

from: Joe Patient — 221

to: Dr: Jones

subject: Thanks for the advice I'm feeling much better

date: 1/25/2000

The email message text will go here.

220 ↗



Figure 6

00000-9407E550

WELCOME

Patient Activity

Patient List

E-Mail

My Statistics

End of Day Report

Preferences

Reference

News

Product Review



00440-3307550

Patient Folder

Diagnosis

Treatment Plan

Letter of Consultation

Patient

Gender

Age

Birth Date

ID Number

Salient Medical History Information

Current Medications Information

254

250

252

232

235

234

236

238

240

230

Figure 7

|                |  |  |  |  |
|----------------|--|--|--|--|
| Joseph Patient |  |  |  |  |
| Male           |  |  |  |  |
| 57             |  |  |  |  |
| 4-16-42        |  |  |  |  |
| T25048         |  |  |  |  |

Your Email Inbox

| date      | time    | subject   | status | did i respond |
|-----------|---------|---|--------|---------------|
| 1/25/2000 | 12:36pm | Thanks for the advice I'm feeling much better   |        | not yet       |
| 1/22/2000 | 1:14pm  | Hello Doctor. I've been having trouble breathing every now and then, should I be worried? |        | yes           |

New Test Results

| date    | time    | tests taken |
|---------|---------|-------------|
| 5-28-99 | 12:36pm | HDL GGE     |

Patient FAQ Audit Trail

None Recently

Compliance/Vitals

None Recently

view

GO

237

- WELCOME**
- Patient Activity
- Patient List
- E-Mail
- My Statistics
- End of Day Report
- Preferences
- Reference
- News
- Product Review

**Patient Folder**

**Diagnosis**

**Treatment Plan**

**Letter of Consent**


**Patient**      Joseph Patient

**Gender**        Male

**Age**             57

**Birth Date**    4-16-42

**ID Number**    T25048



**Salient Medical History**

**Current Medications**

**Information**

**Information**

Test Date            05-28-1999

**HDL Gradient Gel Electrophoresis (HDL GGE) & Relative HDL Subclass Distribution**

| HDL Subclass | results (area %) | 10% | 50% | 90% |
|--------------|------------------|-----|-----|-----|
| 2b           | 15               | 4   | 8   | 18  |
| 2a           | 22               | 12  | 18  | 26  |
| Sum of HDL2  | 37               |     |     |     |

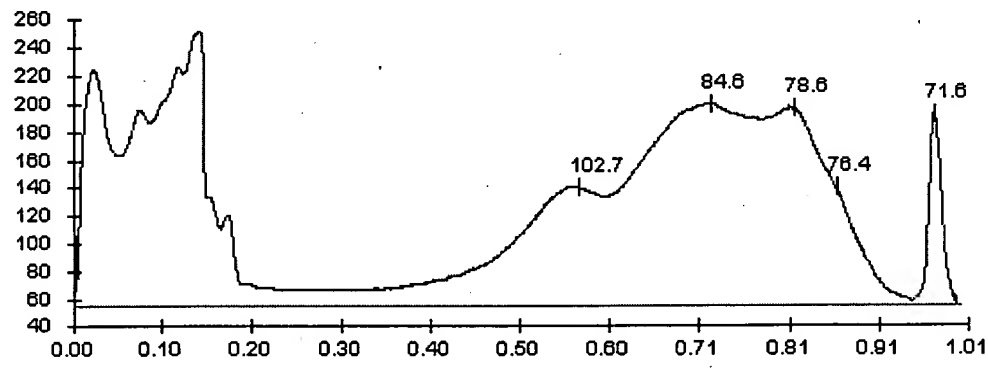
  

| HDL Subclass | results (area %) | 10% | 50% | 90% |
|--------------|------------------|-----|-----|-----|
| 3a           | 32               | 31  | 36  | 40  |
| 3b           | 23               | 16  | 26  | 33  |
| 3c           | 9                | 5   | 10  | 17  |
| Sum of HDL3  | 64               |     |     |     |

HDL2 and HDL3 contribute to HDL-cholesterol measurements. HDL3 levels are more resistant to change than HDL2, which can be increased by weightloss, exercise and estrogen.

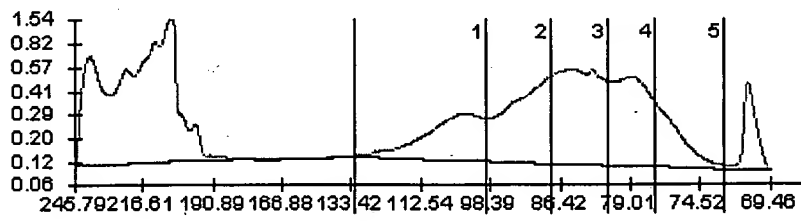
**Particle Size** (numbers at peaks are particle size in angstroms)

HH0521.BIO:8 B99006263 2G



**Percent Distribution**

HH0521.BIO:8



**BEST AVAILABLE COPY**

260  
Figure 8



WELCOME

Patient Activity

Patient List

E-Mail

My Statistics

End of Day Report

Preferences

Reference

News

Product Review

Patient Folder

Diagnosis

Treatment Plan

Letter of Corres

Patient

Gender

Age

Birth Date

ID Number

Salient Medical History

Information

Current Medications

Information

Diagnosis History

Diagnosis 1

Diagnosis 2

Diagnosis 3

Diagnosis 4

Diagnosis 5

Create New Diagnosis



|     |  |
|-----|--|
| 291 |  |
|     |  |
|     |  |
|     |  |
|     |  |

004220-3167E550

292

Figure 9

290

WELCOME

Patient Activity

Patient List

E-Mail

My Statistics

End of Day Report

Preferences

Reference

News

Product Review

Patient Folder

Diagnosis

Treatment Plan

Letter of Consent

Patient

Gender

Age

Birth Date

ID Number

Joeseph Patient

Male

57

4-16-42

T25048

Salient Medical History

Information

Current Medications

Information

Overview

302

This will be a brief paragraph explaining the comments of the treatment plan below.

Exercise

304

High Caloric Burn

Prescription Medications

306

Drug 1 - 100mg - QAM - 250 count - 2 Refills - No Food

Diet

308

3000 Total Calories

6% Saturated Fat

15% Polyunsaturated Fat

10% Monounsaturated Fat

10% Complex Carbohydrates

45% Simple Carbohydrates

15% Proteins

CV Products

310

Product

Product

Product

Product

Suggested Readings

312

Title

Title

Title

http://www.website.com

Type

Book

Journal

Website

Adjunct Medications

314

Name

Name

Name

Name

Follow Up

316

Next Office Visit

3 Months

Next Scheduled Test(s)

6 Months - LDL, Lipid Panel

320-Q

Q

Q

Q

Q

Q

Q

Q

Figure 10

300

1 of 1

03/16/2000 11:26 AM

**WELCOME**

Patient Activity

Patiant List

E-Mail

My Statistics

End of Day Report

Preferences

Reference


News

Product Review

**Patient Folder**

Diagnosis    Treatment Plan    Letter of Consultation

|            |                  |
|------------|------------------|
| Patient    | Joeseeph Patient |
| Gender     | Male             |
| Age        | 57               |
| Birth Date | 4-16-42          |
| ID Number  | T25048           |



|                                     |                                 |
|-------------------------------------|---------------------------------|
| Salient Medical History Information | Current Medications Information |
|-------------------------------------|---------------------------------|

Letter of Consultation

Figure 11

WELCOME

Patiant Activity

Patient List

E-Mail

My Statistics

End of Day Report

Preferences

Reference

News

Product Review

Patient Folder

Diagnosis

Treatment Plan

Letter of Cons

Patient

Gender

Age

Birth Date


ID Number

Salient Medical History

Information

Current Medications

Information



Diet Prescription

Total Daily Calories

Select Daily Caloric Amount 2000 3000 4000

Total Caloric Breakdown

|     |                     |     |                       |
|-----|---------------------|-----|-----------------------|
| 6%  | Saturated Fat       | 10% | Complex Carbohydrates |
| 15% | Polyunsaturated Fat | 45% | Simple Carbohydrates  |
| 10% | Monounsaturated Fat | 15% | Protiens              |
| 6%  | Saturated Fat       | 10% | Complex Carbohydrates |
| 15% | Polyunsaturated Fat | 45% | Simple Carbohydrates  |
| 10% | Monounsaturated Fat | 15% | Protiens              |
| 6%  | Saturated Fat       | 10% | Complex Carbohydrates |
| 15% | Polyunsaturated Fat | 45% | Simple Carbohydrates  |
| 10% | Monounsaturated Fat | 15% | Protiens              |
| 6%  | Saturated Fat       | 10% | Complex Carbohydrates |
| 15% | Polyunsaturated Fat | 45% | Simple Carbohydrates  |
| 10% | Monounsaturated Fat | 15% | Protiens              |

Notes

Figure 12

351  
352  
353  
354  
355  
356  
357  
358  
359

**WELCOME**

Test Results

Compliance/Vitals

E-Mail

Products

Preferences

Reference

News

Physician Profile

Welcome to the Patient's Reception Area

Wednesday, Mar

Patient D\*\*\*\*, Frank  
Gender M  
Age 71  
Birth Date 10-20-1927  
ID Number T14523

341

| Test Results |             |                            |      |
|--------------|-------------|----------------------------|------|
| date         | tests taken | comments                   | view |
| 5-28-1999    | HDL GGE     | Comments from cardiologist | GO   |
| 5-28-1999    | LDL GGE     | Comments from cardiologist | GO   |
| 5-28-1999    | LIPID PANEL | Comments from cardiologist | GO   |



| Diagnosis |             |
|-----------|-------------|
| Date      | Diagnosis   |
| Date      | Diagnosis 1 |
| Date      | Diagnosis 2 |
| Date      | Diagnosis 3 |

342

| Treatment Plan  |  |
|---|--|
| Overview  |  |
| This will be a brief paragraph explaining the comments of the treatment plan below. |  |

343

| Email Inbox |         |                                 |        |       |
|-------------|---------|---------------------------------|--------|-------|
| date        | time    | subject                         | status | did i |
| 1/22/2000   | 12:36pm | How are you feeling today?      | GO     | nc    |
| 1/22/2000   | 1:14pm  | About your breathing trouble... | !      |       |

344

340

Figure 13

WELCOME

Test Results

Treatment Plan

Compliance/Vitals

E-Mail

Products

Preferences

Reference

News

Physician Profile

PatientD\*\*\*\*, Frank

GenderM

Age71

Birth Date10-20-1927

ID NumberT14523

| Test Results |             |         |         |
|--------------|-------------|---------|---------|
| Date         | Lipid Panel | LDL GGE | HDL GGE |
| 05-28-1999   | ✓           | ✓       | ✓       |
| 03-30-1999   | ✓           | ✓       | ✓       |
| 03-05-1999   | ✓           |         |         |



Figure 14

- WELCOME
- Test Results
- Treatment Plan
- Compliance/Vitals
- E-Mail
- Products
- Preferences
- Reference
- News
- Physician Profile



Requesting Physician

H. Robert Superko  
Research Study - Lipid Institute  
1875 South Grant Street, Suite 700  
San Mateo, CA 94402  
FAX (650) 372-1952

Patient

D\*\*\*\*, Frank      Gender      Age  
M      71  
ID Number      Birth Date  
T14623      10-20-1927

Report Details

Test Date      05-28-1999

HDL Gradient Gel Electrophoresis (HDL GGE) - Relative HDL Subclass Distribution

| HDL Subclass | results (area %) | 10% | 50% | 90% |
|--------------|------------------|-----|-----|-----|
| 2b           | 15               | 4   | 8   | 18  |
| 2a           | 22               | 12  | 18  | 26  |
| Sum of HDL2  | 37               |     |     |     |

| HDL Subclass | results (area %) | 10% | 50% | 90% |
|--------------|------------------|-----|-----|-----|
| 3a           | 32               | 31  | 36  | 40  |
| 3b           | 23               | 16  | 26  | 33  |
| 3c           | 9                | 5   | 10  | 17  |
| Sum of HDL3  | 64               |     |     |     |

HDL2 and HDL3 contribute to HDL-cholesterol measurements. HDL3 levels are more resistant to change than HDL2, which can be increased by weightloss, exercise and estrogen.

Particle Size (numbers at peaks are particle size in angstroms)

HH0521.B10:8 B99006263 2G

Percent Distribution

HH0521.B10:8

Figure 15

Wednesday, Mar

- Test Results
- Compliance/Vitals
- E-Mail
- Products
- Preferences
- News
- Physician Profile



Patient D\*\*\*\*, Frank  
Gender M  
Age 71  
Birth Date 10-20-1927  
ID Number T14523

Treatment Plan

Overview

This will be a brief paragraph explaining the comments of the treatment plan below.

Plan Details

Exercise Information

Medications Information

Diet Information

Suggested Readings Information

Adjunct Medications Information

Follow Up

Next Office Visit Information

Next Scheduled Test Information

Figure 16



WELCOME

Test Results

Treatment Plan

Compliance/Vitals

E-Mail

Products

Preferences

Reference

News

Physician Profile



Patient

D\*\*\*\*, Frank

Gender

M

Age

71

Birth Date

10-20-1927

ID Number

T14523

Wednesday, March 15, 2000

| Compliance |    |   |
|------------|----|---|
| yes        | no | Are you following your diet?                  |
| yes        | no | Are you following your exercise routine?      |
| yes        | no | Have you been taking your medicine regularly? |

| Vitals            |   |
|-------------------|---|
| Weight            |   |
| Blood Pressure    | / |
| Vital Statistic 3 |   |
| Vital Statistic 4 |   |
| Vital Statistic 5 |   |
| Vital Statistic 6 |   |

Figure 17

Figure 1 is a database schema diagram showing the relationships between various tables. The tables are represented as boxes with their names and attributes. The relationships are indicated by lines connecting the tables.

- 800 tWebUsers** (Attributes: ID, UserID, LoginName, Password, UserType, CacheTimestamp)
- 801 tCurrentPHClientQuestionMap** (Attributes: ClientID, QuestionID)
- 802 tIPHAnswers** (Attributes: ID, QuestionID, HistoryID, Answer)
- 803 tIPHS** (Attributes: ID, PatientID, Timestamp, EntryMethodID, EnteredByID, FormID)
- 804 tDataEntryMethods** (Attributes: ID, Description)
- 805 tPatientComplianceEntry** (Attributes: ID, PatientID, Timestamp, EntryMethodID, EnteredByID)
- 806 tPatientComplianceAnswers** (Attributes: ID, QuestionID, ComplianceReportID, Answer)
- 807 tIPHQuestionChoiceMap** (Attributes: QuestionID, ChoiceText)
- 808 tIPHQuestionPool** (Attributes: ID, QuestionText, ResponseFormatID)
- 809 tResponseFormatTypes** (Attributes: ID, Description)
- 810 tPatientComplianceQuestionPool** (Attributes: ID, QuestionText, ResponseFormatID)
- 811 tComplianceQuestionChoiceMap** (Attributes: QuestionID, ChoiceText)

The relationships are as follows:

- 800 tWebUsers** is connected to **801 tCurrentPHClientQuestionMap**, **803 tIPHS**, and **805 tPatientComplianceEntry**.
- 801 tCurrentPHClientQuestionMap** is connected to **802 tIPHAnswers** and **808 tIPHQuestionPool**.
- 802 tIPHAnswers** is connected to **803 tIPHS** and **806 tPatientComplianceAnswers**.
- 803 tIPHS** is connected to **804 tDataEntryMethods** and **805 tPatientComplianceEntry**.
- 804 tDataEntryMethods** is connected to **805 tPatientComplianceEntry** and **806 tPatientComplianceAnswers**.
- 805 tPatientComplianceEntry** is connected to **806 tPatientComplianceAnswers** and **810 tPatientComplianceQuestionPool**.
- 806 tPatientComplianceAnswers** is connected to **811 tComplianceQuestionChoiceMap**.
- 807 tIPHQuestionChoiceMap** is connected to **808 tIPHQuestionPool** and **811 tComplianceQuestionChoiceMap**.
- 808 tIPHQuestionPool** is connected to **809 tResponseFormatTypes** and **810 tPatientComplianceQuestionPool**.
- 809 tResponseFormatTypes** is connected to **810 tPatientComplianceQuestionPool** and **811 tComplianceQuestionChoiceMap**.
- 810 tPatientComplianceQuestionPool** is connected to **811 tComplianceQuestionChoiceMap**.

Figure 18

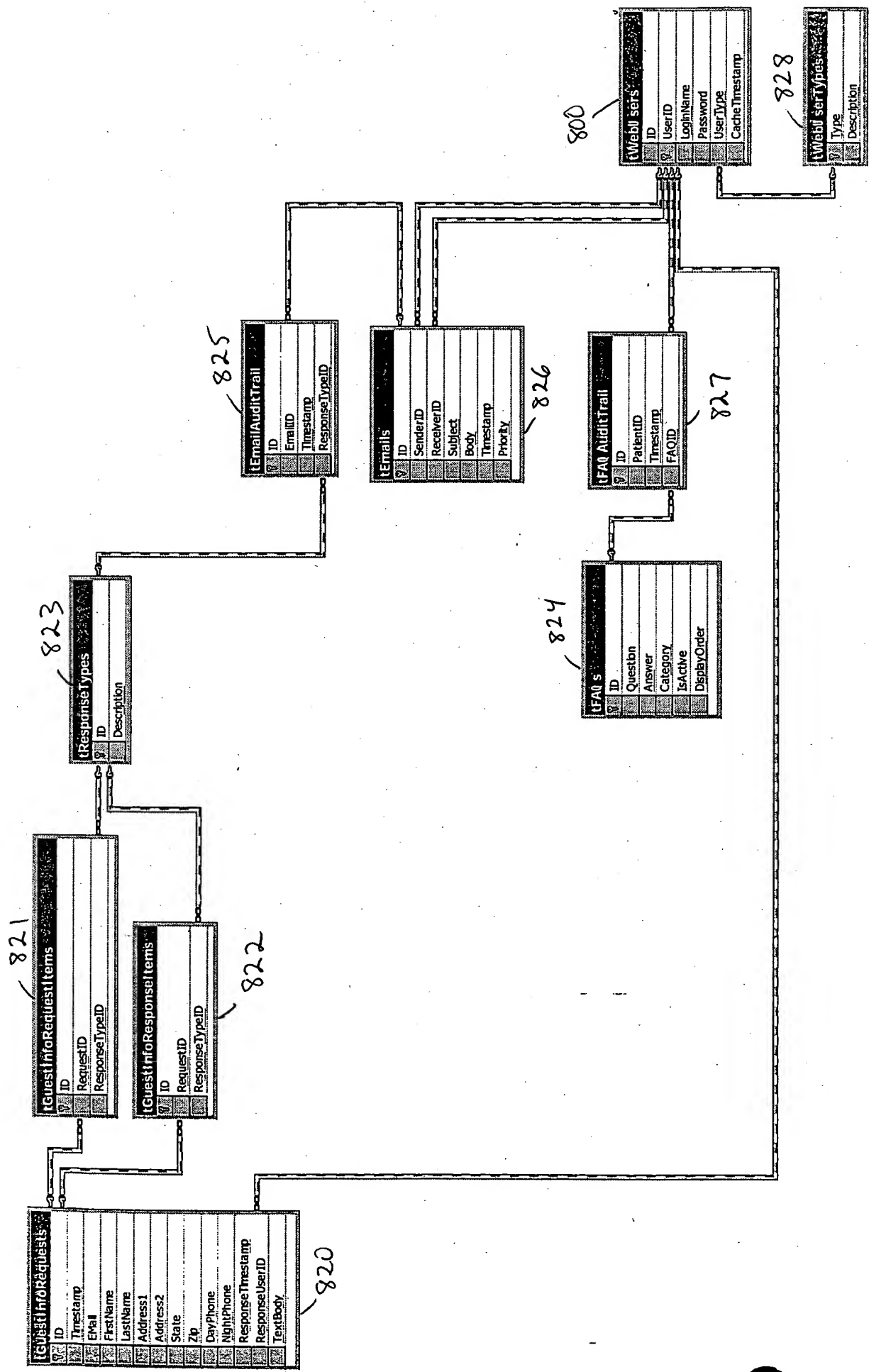


Figure 19

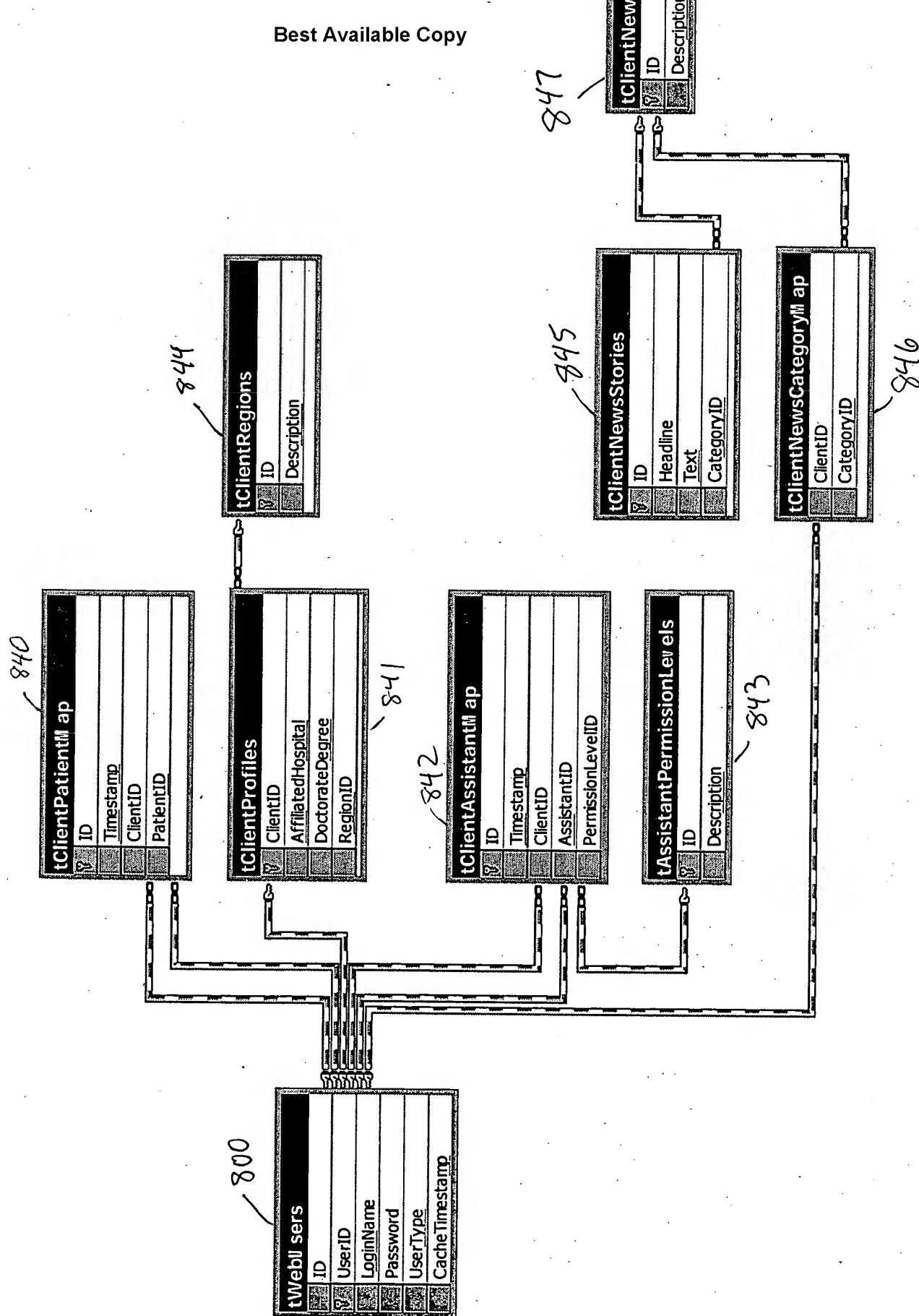


Figure 20

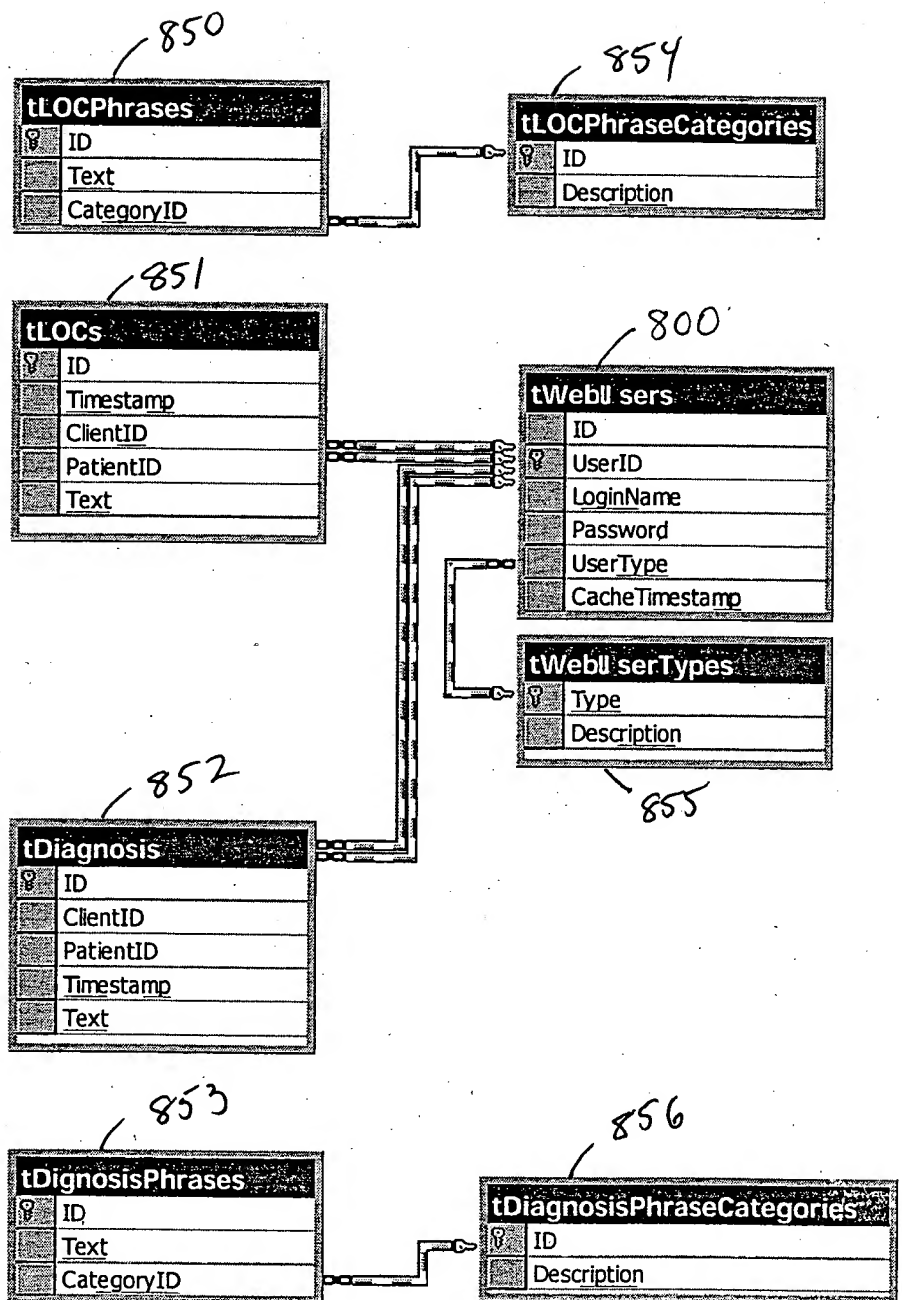
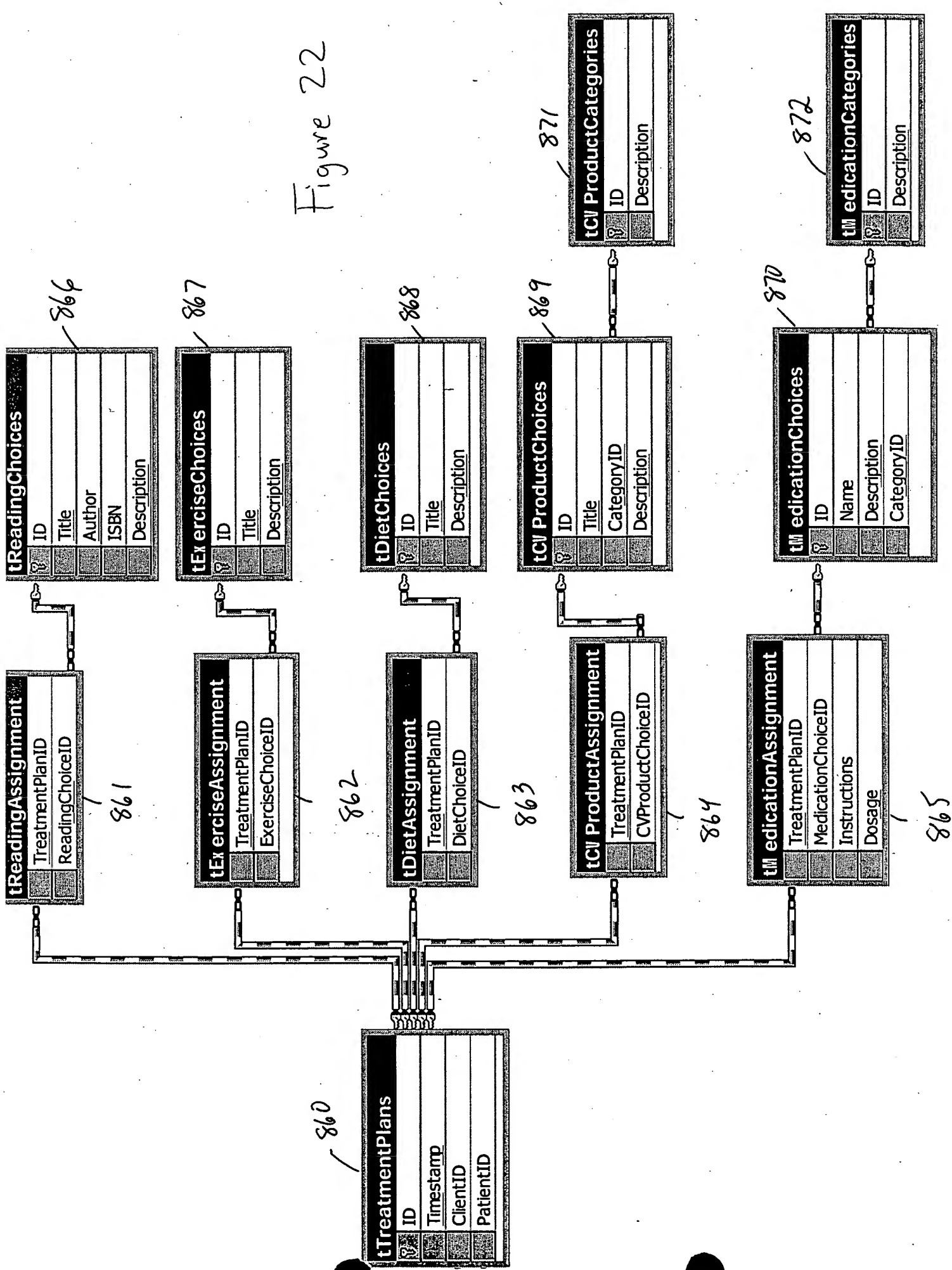


Figure 21

Figure 22



# Cardiovascular Informatics

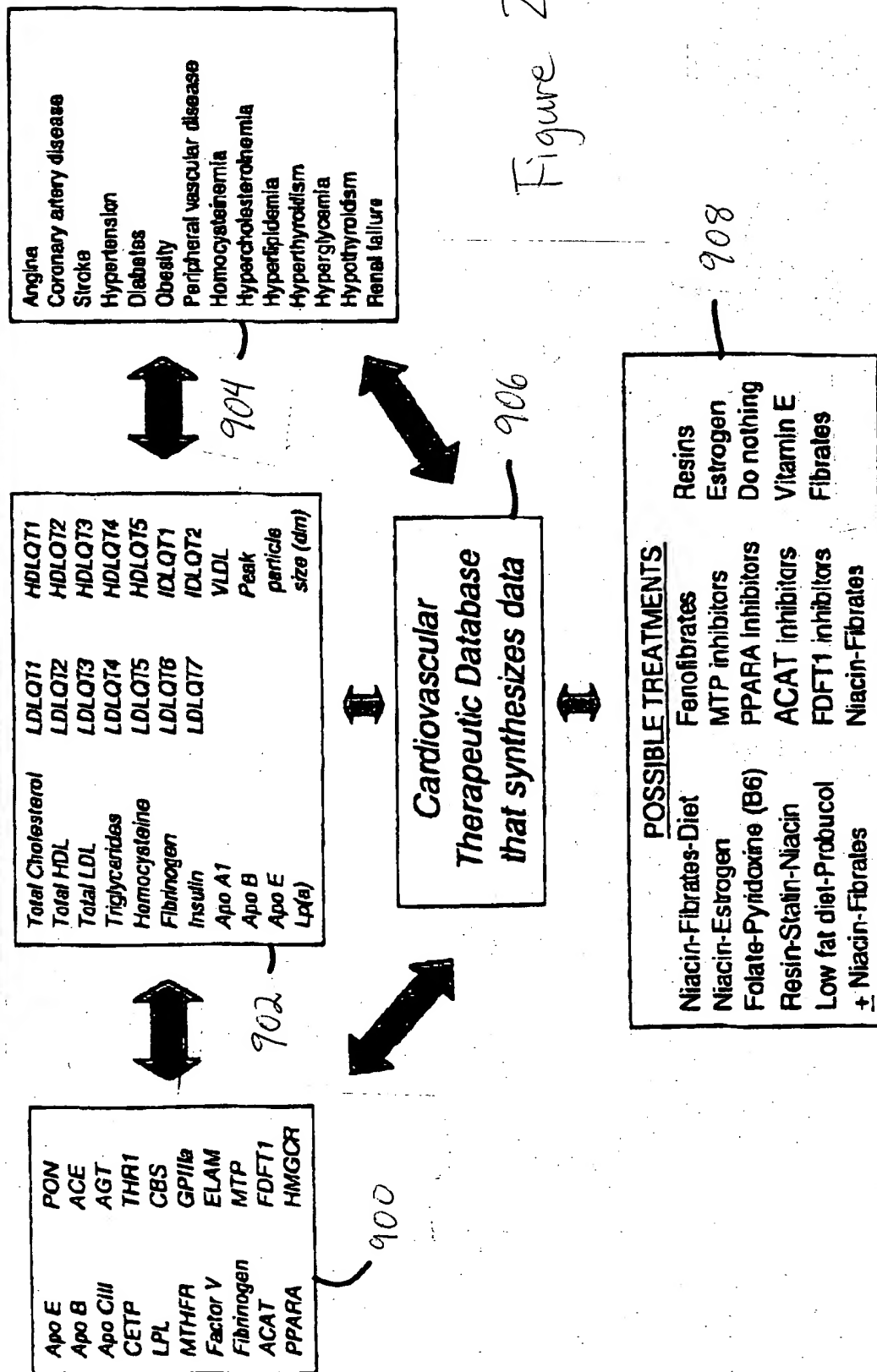


Figure 23

00534946-03400

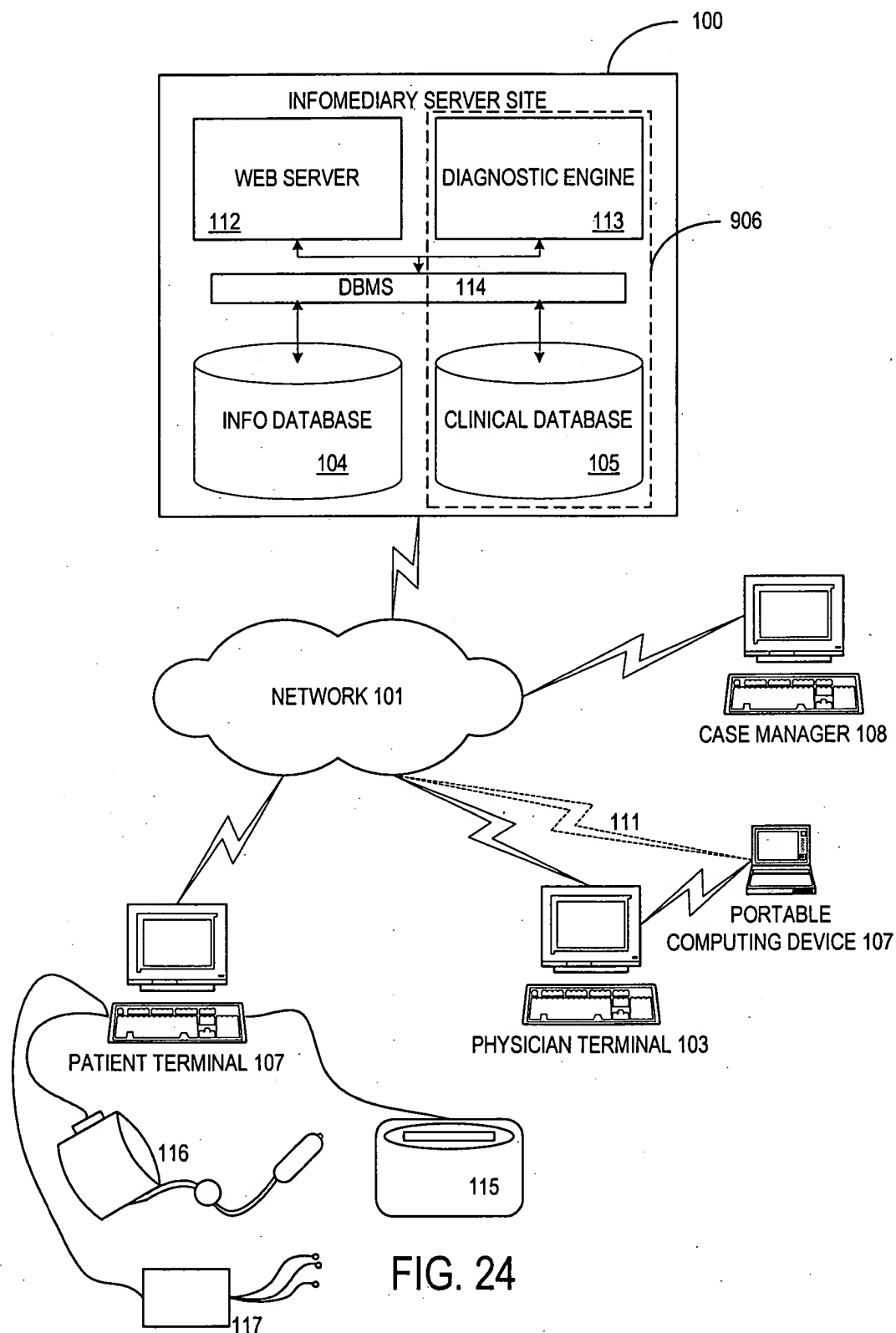


FIG. 24



FIG. 25

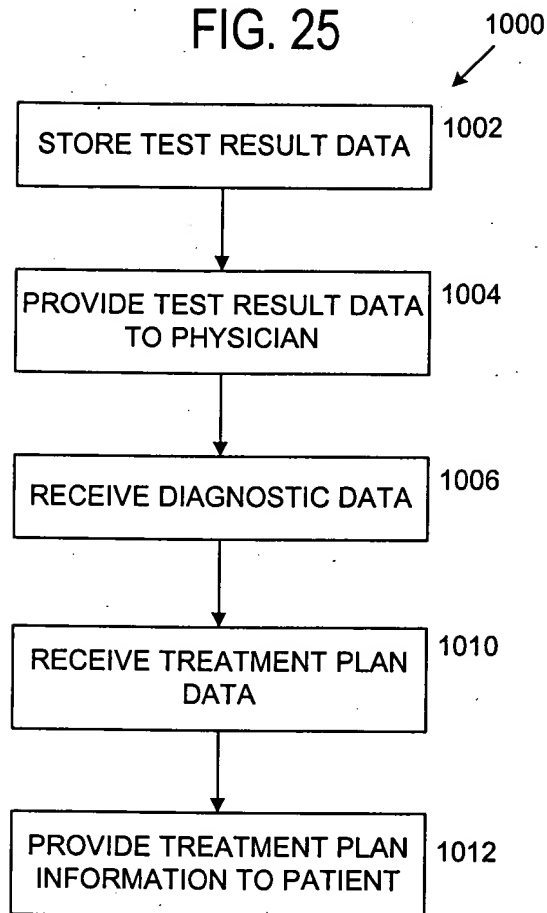


FIG. 26

